

ABSTRACT OF THE DISCLOSURE

A soft magnetic film composed of an alloy represented by the formula FeNiRe is used for forming a lower core layer
5 and/or an upper core layer. Since having a high saturated magnetic flux density, a high resistivity, superior corrosion resistance, and a small loss in a high frequency signal region, the FeNiRe alloy can be used for forming a highly reliable thin film magnetic head.